Grade 8 Math		Curricular Competencies																	
		Reasoning and Analyzing					Understanding and Solving				Communicating & Representing				Connecting and Reflecting				
Big Ideas	objects can be used to describe, measure, and compare spatial relationships. *Analyzing data by determining averages is one way to make sense of large data sets and enables us to compare and	Jse logic and patterns to solve puzzles and play games	Use reasoning and logic to explore, analyze, and apply mathematical ideas	Estimate reasonably	Demonstrate and apply mental math strategies	Use tools or technology to explore and create patterns and relationships, and test conjectures	Model mathematics in contextualized experiences	Apply multiple strategies to solve problems in both abstract and contextualized situations	Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving	/isualize to explore mathematical concepts	Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures	Use mathematical vocabulary and language to contribute to mathematical discussions	Explain and justify mathematical ideas and decisions	Communicate mathematical thinking in many ways	Represent mathematical ideas in concrete, pictorial, and symbolic forms	Reflect on mathematical thinking	Connect mathematical concepts to each other and to other areas and personal interests	Use mathematical arguments to support personal choices	Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts
	interpret. perfect square and cubes		ء د	Ш			2	4 e			д с с ≑	ב כ	Ш	0	Ľω	ir.	0 \$		프꾸
	square and cube roots																		
	percents less than 1 and greater than 100 (decimal and fractional percents)							Г											
	numerical proportional reasoning (rates, ratio, proportions, and percent)																		
	operations with fractions(addition, subtraction, multiplication, division, and order of operations)																		
Content	discrete linear relations(extended to larger numbers, limited to integers)																		
	expressions- writing and evaluating using substitution																		
	two-step equations with integer coefficients, constants, and solutions																		
	surface area and volume of regular solids, including triangular																		
	and other right prisms and cylinders Pythagorean theorem																		
	construction, views, and nets of 3D objects																		
	central tendency																		
	theoretical probability with two independent events																		
	financial literacy - best buys																		